Suborder **Endeostigmata** Reuter, 1909[1, 2] (5 superfamilies, 10 families, 27 genera, 108 species; †3/5)

Infraorder **Bimichaliida** Oconnor, 1984 (1 superfamily)[3]

Superfamily **Alycoidea** G. Canestrini & Fanzago, 1877 (3 families)

Family **Alycidae** G. Canestrini & Fanzago, 1877 (6 genera, 29 species; †0/2)[4, 5]

Family **Nanorchestidae** Grandjean, 1937 (5 genera, 45 species; †1/1)

Family **Proterorhagiidae** Lindquist & Palacios-Vargas, 1991 (1 genus, 1 species)

Infraorder **Nematalycina** Lindquist, Krantz & Walter, 2009 (1 superfamily)[6]

Superfamily **Nematalycoidea** Strenke, 1954 (2 families)

Family **Micropsammidae** Coineau & Theron, 1983 (1 genus, 1 species)

Family **Nematalycidae** Strenke, 1954 (4 genera, 4 species)

Family **Proteonematalycidae** Kethley, 1989 (1 genus, 1 species)

Infraorder **Terpnacarida** Oconnor, 1984 (2 superfamilies)[7]

Superfamily **Oehserchestoidea** Kethley, 1977 (1 family)

Family **Oehserchestidae** Kethley, 1977 (1 genus, 4 species)

Family **Grandjeanicidae** Kethley, 1977 (1 genus, 3 species)

Superfamily **Terpnacaroidea** Grandjean, 1939 (1 family)

Family **Terpnacaridae** Grandjean, 1939 (2 genera, 11 species)[8]

Infraorder **Alicorhagiida** Oconnor, 1984 (1 superfamily)[9]

Superfamily **Alicorhagioidea** Grandjean, 1939 (1 family)

Family **Alicorhagiidae** Grandjean, 1939 (5 genera, 9 species; †2/2)

References

Beaulieu, F., Dowling, A.P.G, Klompen, H., Moraes, G.J. de & Walter, D.E. (2011) Superorder Parasitiformes Reuter, 1909. *In*: Zhang, Z-Q. (ed.) Animal biodiversity: an outline of higher-level classification and survey of taxonomic richness. *Zootaxa*, 3148, 123–128.

Lindquist, E , Krantz, G.W. & Walter, D.E. (2009) Chapter eigth. Classification. In: Krantz, G.W. & Walter, D.E. (eds) *A Manual of Acarology Third edition*. Texas Tech University Press, Lubbock, pp. 97–103.

Momen, F.M., Sayed, A.A. & Nasr, A.K. (2004) A new species of the genus *Terpnacarus* Grandjean (Acari: Terpnacaridae) from Egypt. *Zootaxa*, 543, 1–4.

Schatz, H, Behan-Pelletier, V.M., Oconnor, B.M. & Norton, R.A. (2011) Suborder Oribatida van der Hammen, 1968. *In*: Zhang, Z-Q. (ed.) Animal biodiversity: an outline of higher-level classification and survey of taxonomic richness. *Zootaxa*, 3148, 141–148.

Walter, D.E. (2009) Chapter fourteen. Suborder Endeostigmata. *In*: Krantz, G.W. & Walter, D.E. (eds) *A Manual of Acarology Third edition*. Texas Tech University Press, Lubbock, pp. 421–429.

Uusitalo, M. (2010) *Revision of the family Alycidae (Acariformes, Acari), with special reference to European species*. Helsinki University Print: Helsinki, 143 pp.

Zhang, Z.-Q., Fan, Q.-H., Pesic, V., Smit, H., Bochkov, A.V., Khaustov, A.A., Baker, A., Wohltmann, A., Wen, T.-H., Amrine, J.W., Beron, P., Lin, J.-Z. & Husband, R. (2011) Order Trombidiformes Reuter, 1909. *In*: Zhang, Z-Q. (ed.) Animal biodiversity: an outline of higher-level classification and survey of taxonomic richness. *Zootaxa*, 3148, 129–138.

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1. **BY** David Evans Walter, Samuel Bolton, Matti Uusitalo & Zhi-Qiang Zhang (for full auhor addresses, see **Contributor roles and addresses** after **References**). The title of this contribution should be cited as "Suborder Endeostigmata Reuter, 1909. *In*: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness".
2. Higher classification and estimates of genera and species within families generally follow Lindquist et al. (2009), with updates as otherwise indicated. To be consistent with Beaulieu *et al.* (2011), Schatz *et al.* (2011) and Zhang et al. (2011), the rank cohort is not used and older names for higher taxa are used.
3. Senior synonym of Alycyina (Lindquist, Krantz & Walter, 2009).
4. Uusitalo (2010) revised this family with several new genera.
5. Throughout this paper, counts of genera and species are totals (Recent and fossil); †x/y refers x genera and y species, among the totals, are based on fossil.
6. Proposed originally by Lindquist, Krantz & Walter, 2009 at the rank of cohort.
7. Terpnacarina of Lindquist, Krantz & Walter (2009).
8. Based on Momen et al. (2004) with updates.
9. Alicorhagiinaof Lindquist, Krantz & Walter (2009).

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